Applicant: Haruo Sugiyama et al.

Serial No.: To Be Assigned

Filed : Herewith Page : 3 of 5

Attorney's Docket No.: 14875-170US1 / C1-A0403P-US

IAPS Rec'd PCT/PTO 28 SEP 2006

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Original) A method for separating a hepatic, endothelial, or hematopoietic progenitor cell from a cell population, wherein the method comprises the steps of:
 - a) detecting the expression of a WT1 gene in a cell in a cell population; and
 - b) separating the cell in which expression of the WT1 gene was detected.
- 2. (Original) A method for simultaneously separating at least two progenitor cells from a cell population, wherein the progenitor cells are selected from hepatic, endothelial, and hematopoietic progenitor cells, and wherein the method comprises the steps of:
- a) detecting the expression of a WT1 gene in a cell in a cell population comprising at least two progenitor cells, selected from hepatic, endothelial, and hematopoietic progenitor cells; and
 - b) separating the cells in which expression of the WT1 gene was detected.
- 3. (Currently Amended) The method of claim 1 or 2, wherein expression of the WT1 gene is detected by using expression of a WT1 gene or of a reporter gene linked to a WT1 promoter as an indicator.
- 4. (Original) The method of claim 3, wherein the reporter gene is a lacZ gene or GFP gene, and expression of the reporter gene is detected by a FACS assay.

Applicant: Haruo Sugiyama et al. Attorney's Docket No.: 14875-170US1 / C1-A0403P-US

 $Serial\ No.\ :\ To\ Be\ Assigned$

Filed : Herewith Page : 4 of 5

5. (Currently Amended) The method of any one of claims 1 to 4 claim 1, wherein a hepatic progenitor cell or an endothelial progenitor cell is separated when the expression level of the WT1 gene is in the range of $2.21 (\pm 1.62) \times 10^{-2}$ (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1), and a hematopoietic progenitor cell is separated when the expression level of the WT1 gene is in the range of $3.54 (\pm 3.39) \times 10^{-4}$ (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1).

- 6. (New) The method of claim 2, wherein expression of the WT1 gene is detected by using expression of a WT1 gene or of a reporter gene linked to a WT1 promoter as an indicator.
- 7. (New) The method of claim 6, wherein the reporter gene is a lacZ gene or GFP gene, and expression of the reporter gene is detected by a FACS assay.
- 8. (New) The method of claim 2, wherein a hepatic progenitor cell or an endothelial progenitor cell is separated when the expression level of the WT1 gene is in the range of 2.21 (± 1.62) x 10^{-2} (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1), and a hematopoietic progenitor cell is separated when the expression level of the WT1 gene is in the range of 3.54 (± 3.39) x 10^{-4} (when expression of the WT1 gene in a K562 leukemia cell line is defined as 1).